

INTERNATIONAL SEARCH REPORT

International Application No

PCT/EP2005/001390

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 A61P19/02 A61K31/737

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 A61K A61P

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, CHEM ABS Data, BIOSIS, WPI Data, PAJ, EMBASE

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	DATABASE CA 'Online! CHEMICAL ABSTRACTS SERVICE, COLUMBUS, OHIO, US; MINAMI, S. ET AL: "Veterinary-clinical uses of curdlan sulfate" XP002347885 retrieved from STN Database accession no. 1999:492587 abstract & KICHIN, KITOSAN KENKYU , 5(2), 166-167 CODEN: KKKEFB; ISSN: 1340-9778, 1999, -----	1-17, 19-25
X	WO 03/006645 A (IMCLONE SYSTEMS INCORPORATED; BOHLEN, PETER; HICKLIN, DANIEL; KUSSIE,) 23 January 2003 (2003-01-23) paragraph '0085!; claims 12,15 ----- -/--	1-17, 19-25

☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *G* document member of the same patent family

Date of the actual completion of the international search

5 October 2005

Date of mailing of the international search report

19/10/2005

Name and mailing address of the ISA

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 4 021 545 A (NAIR ET AL) 3 May 1977 (1977-05-03) column 4, line 16; claims -----	1-17, 19-25
X	US 2003/181416 A1 (COMPER WAYNE D) 25 September 2003 (2003-09-25) paragraph '0053!; claims 1,40 -----	1-17, 19-25
X	MIYAMOTO KEIICHI ET AL: "Novel plasma-separation dilayer gellan-gellan-sulfate adsorber for direct removal of extra domain A containing fibronectin from the blood of rheumatoid arthritis patients" INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES, vol. 30, no. 3-4, 18 June 2002 (2002-06-18), pages 197-204, XP009054555 ISSN: 0141-8130 abstract -----	1-17, 19-25
X	EP 0 561 379 A (ASAHI MEDICAL CO., LTD) 22 September 1993 (1993-09-22) page 25, line 31 page 18, line 14 -----	1-17, 19-25
X	US 4 699 900 A (BAYOL ET AL) 13 October 1987 (1987-10-13) claims -----	1-17, 19-25
X	WO 92/13541 A (HOECHST AKTIENGESELLSCHAFT) 20 August 1992 (1992-08-20) page 8, paragraph 3; claims -----	1-17, 19-25
X	WO 02/36132 A (LABORATOIRES GOEMAR S.A; YVIN, JEAN-CLAUDE; ALBAN, SUSANNE; FRANZ, GER) 10 May 2002 (2002-05-10) the whole document -----	1-17, 19-25
E	WO 2005/054446 A (UNIVERSITEIT GENT; VERBRUGGEN, AUGUST; VEYS, ERIC) 16 June 2005 (2005-06-16) the whole document -----	1-17, 19-25

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Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☒ Claims Nos.: 18
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
see FURTHER INFORMATION sheet PCT/ISA/210
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box II.2

Claims Nos.: 18

Claim 18 is not clear (Art. 6 PCT).

Carrageenans are natural polysulfated polysaccharides and the term "carrageenan polysulfate" used in claim 18 therefore is not clear (Art. 6 PCT).

The applicant's attention is drawn to the fact that claims relating to inventions in respect of which no international search report has been established need not be the subject of an international preliminary examination (Rule 66.1(e) PCT). The applicant is advised that the EPO policy when acting as an International Preliminary Examining Authority is normally not to carry out a preliminary examination on matter which has not been searched. This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any Chapter II procedure. If the application proceeds into the regional phase before the EPO, the applicant is reminded that a search may be carried out during examination before the EPO (see EPO Guideline C-VI, 8.5), should the problems which led to the Article 17(2) declaration be overcome.

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Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 03006645	A	23-01-2003	CA 2453566 A1 EP 1417304 A2 JP 2005521379 T	23-01-2003 12-05-2004 21-07-2005
US 4021545	A	03-05-1977	NONE	
US 2003181416	A1	25-09-2003	US 2004009953 A1	15-01-2004
EP 0561379	A	22-09-1993	DE 69319471 D1 DE 69319471 T2 US 5407581 A	13-08-1998 15-04-1999 18-04-1995
US 4699900	A	13-10-1987	AU 561588 B2 AU 2441284 A CA 1221090 A1 DE 3461808 D1 DK 55784 A EP 0125152 A1 ES 8500962 A1 FR 2543145 A1 GR 79831 A1 JP 60063203 A KR 8601394 B1 NZ 207622 A PT 78179 A ZA 8402176 A	14-05-1987 27-09-1984 28-04-1987 05-02-1987 25-09-1984 14-11-1984 01-02-1985 28-09-1984 31-10-1984 11-04-1985 22-09-1986 08-08-1986 01-04-1984 31-10-1984
WO 9213541	A	20-08-1992	AU 1154992 A	07-09-1992
WO 0236132	A	10-05-2002	AU 2373102 A CA 2427744 A1 EP 1337261 A1 FR 2816213 A1 US 2004127457 A1	15-05-2002 10-05-2002 27-08-2003 10-05-2002 01-07-2004
WO 2005054446	A	16-06-2005	NONE	